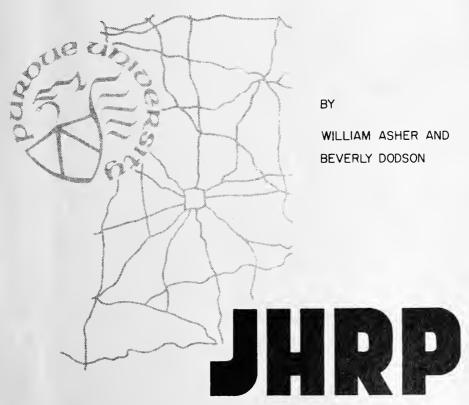
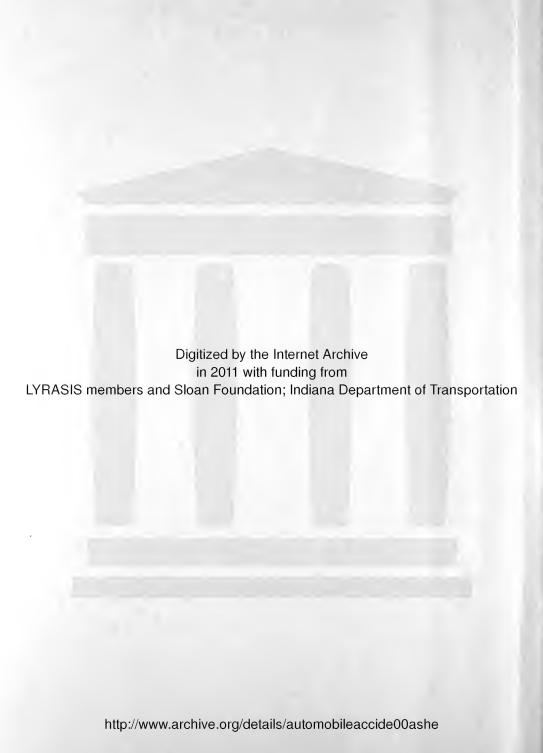
# AUTOMOBILE ACCIDENTS IN THE YEAR FOLLOWING HIGH SCHOOL: THE PREDICTIVE VALUE OF 377 UNOBTRUSIVE VARIABLES

## NOVEMBER 1969 - NUMBER 33



JOINT HIGHWAY RESEARCH PROJECT

PURDUE UNIVERSITY AND
INDIANA STATE HIGHWAY COMMISSION



#### Progress Report

#### AUTOMOBILE ACCIDENTS IN THE YEAR FOLLOWING HIGH SCHOOL: THE PREDICTIVE VALUE OF 377 UNOBTRUSTVE VARIABLES

TO: J. F. McLaughlin, Director

Joint Highway Research Project

File No. 5-17

FROM: W. L. Michael, Associate Director Joint Highway Research Project

Project No. ( 35-59.)

The attached Progress Report "Auron of the United to the Predictive Code to the manye Variables" is submitted as the first vop ut on the protections project approved by the JRRP Board on the relations if the land education to highway safety. The research is being conducted by Professor William Asher, Departments of ducation and Esychology and Miss Beverly Dodson, Research Assistant

Additional research is in progress on the Inclin strdents in the sample and will be reported at a later late

The Report is presented to the Sound for Information and for the record.

Respec fully submittee,

Dear is & Muchael

Harola L Michael Associate Director

#### HIM/rg

3 F. Scholer cc: F. L. Ashbaucher R. H. Harrell J. A. Havers
V. L. Harvey
F. B. Mendenhall W. L. Dolch M. B. Scott W. H. Goetz W. T. Spencer H. R. J. Walsh W. L. Grecco L. B Woods G. K. Hallock R. P. Miles M. E. Harr E J. Yoder

#### Progress Report

AUTOMOBILE ACCIDENTS IN THE YEAR FOLLOWING WIGH SCHOOL: THE PREDICTIVE VALUE OF 377 UNOBTRUSIVE VARIABLES

by

William Asher
Professive of Education and Psychology

and

Reverly Dodson Research Assistant

In all Highway Research Project

File No. 8-5-11 Project No. C-36-59K

Purdue University Lafayette, Indiana November 18, 1969

# AUTOMOBILE ACCIDENTS IN THE YEAR FOLLOWING HIGH SCHOOLS THE FREDICTIVE VALUE OF 377 UNOSTRUSTVE VARIABLES

#### ABSTRAST



#### INTRODU TION

Automobile a sidents are a major problem of the statety, and youngsters in their latter teems are at a garth which vulnerable age for these satisfropies. Thus analysis of declarific divelopment of theory about antemobile at item! The second of theory about antemobile at item! The second of the satisfactory of its analysis of a second of the satisfactory of its analysis of a second of the satisfactory of its analysis of a second of the satisfactory of its analysis of a second of the satisfactory.

Project Table of Flamman, a man, the lateral materials on some 500 variables on a sample of Pp, North actual attention in the United States in 1950. He is just to a place that they continue the additional information on at the 1.0 miles are place they content five years acheduled to graduate from high second to the content of the years following their scheduled graduation for the second up, TALENT's content with reducing an idente in these tips groups, TALENT's first follow up study asked a question about no idents during the past year. Unfortunately, TALENT's no in further behavior of the data and, even worse the steady had to drop this question from further following studies. Death, surfering, and damage continue yearly when the expectitions for research of the lost of one major a cident per year algebraic well have gained enough insights to repsy the research expenses hundreds or even thousands of times.

Meanwhile eight years of invaluable hade have not been collected and seven years passed before the first writer, using funds from the U.S. Office of Education for training undergraduate educational researchers, was able to buy some data from

the bank for analysis. One wonders of so 1 / / 1) is rear v interested in the problem of automobile accidence, and 2) is even somewhat rational.

Further statements, literature reviews, and theory about the importance now of the driver as the cause of wort attadence; the ineffective less of driver education, of the adological problems of evodiceung acrican criteria. The order to require the cash of the first (a.a. a.m. or John 1907)

This paper reports the analysis of the cranning variables in the PALENT Late Bank paraisularly with respect to addidents, driver training, and the Indiana sample

#### PROPIEM

The data used in this study were recited from troje of TALENT (Flinagau, et al, 1964) a widely publicated research project supported by the Office of Education. Fried TALENT offers data on about 400,000 high school students reasonably representative of a U.S. sample, who underwent a two-day period of paper and pencil vesting in the spring of 1960. Some variables have been made available by the data bank (1965), including the results of numerous aptitude and achievement tests, an interest inventory, a student activities inventory, and a rather extensive student information blank.

The criterion variable, whether or not the subjects had had a significant accident in the past year, was obtained from a



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#### METHOD

A Filer IPMY Fig agan, et a Porta all i famile subjects who were seniors in mag s i di \_ ] ] . Jas selected. The criterion for grouping was about 1 or the relith-wrete no mean following state of the second science . Illi i bile bile bile bile bile billion i bile billion i billion at inaphodil injuring in all the second sec iline, Laio? One amaidre persone il la rion e de l'espaidre yes to the chive question se. in the property "acredent group" This ". with a set of a of those students one enough and it is not seen as such year. The man has the news of a serior character of the Weare 1992 and 310 mas a bively girig on 1 1 799 of the series. In the control of the control of the dirly Phus too total out the of 7905 that we well to be again. and 4430 heye

Invest which seven yest of 277 to 1 36 1 1 16.

Project which take Bank (Flancyon, a) (5) to used in addition to the criterion variable of 1 1 ng or not having an accident in the past year. Such variables included the results of information tests in literature, a sience, mechanica, and home economics. Numerous aptitude and achievement test results were included in the areas of language, creativity,



and the fraction of the control of the annual three dimensions. It is found the Statent Information (long of a, furnished data of the Grudent back control and of more spring and strong callet, terrors).

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Thease such the best estimate jourgen of jour Camily's whal on his vir last year (1979). Include coney of his both camputs and on the else in the linear of the relater.

- 12 2 5 th 42 10
- 3000 65 25 909
- D. 19000 to \$11,999
- E. \$12,000 or more
- F I can't estimate this.

The responses A through F were coded 1 through 6. Obviously response F was not a component of the continuum established in responses A through E. Consequently, in order that correlation analysis would be meaningful, response F was deleted. Also,



- 4 Yes
- B We this course is not available.
- Company and a strength of course as entirely
- ) No. but Camped to take the command and

The "Populate to this question were die to the felt has a superior of resource "A" and has a superior of resource "A" and has a superior this absentally responded "D."; the this of a contained only a negocial marker responded "D."; the this section of responds "A" with responded "D."; the this section will espect to be ifen, in a prior story theher & Dod in The E. Container TALTHY there are the SIB can I not be the first that the rank order through the response to the items are at a prior to the student as given a line of 36 alphabeth. The transport is parabola, and asked to mark the one he expects to take its cone to treat this was the major reason for the requestion of the some to the relating TALTHY variables to the number analyzed 378). In order to control for sex differences, data from boys and girls were run separately.

As iso indicated, the most convenient was a some 1978 x 7950. This rather large quantity of data, a matrix of order 378 x 7950. Was via missing data product moment convellations using the BMD 03D program (1964). With only minor lonees of a formation the unicinensions capacity for a soding test to the formation the satisfactor of the soliday plants as and the formation of the satisfactor of the soliday plants as and the satisfactor of mindress of the soliday plants as and the satisfactor of the satisfac

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the unless choiced significant to the unit of the part of the one per minerical for the feet of the case of the one per minerical for the feet of the case of the one per minerical for the feet of the case of the one per minerical for the one per minerical form of the case sets of results are and thereby great than channe expectations; however, the mach under it the relation things is not great. It is obvious that our hypochesization was between them we might have auticipated when a selected the first 100 or so variables from the TALEMY Tata Bank for study. In

the new wrightes several correct which is an income of greater than the for the tops of the correlation of greater than the for the tops of the correct than the form the form of the correct than the form the form of the correct than the correct

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in Jack cury few coarelables (estimate to the viriables) Des Table 2) Driver Cradium, seems to be the by the swho learn to drive later than their poors expendedly for girls.

Table 1<sup>8</sup>

Significant Correlates With Accidents

(1 = non-accident group 2 - accident group)

Variable	Correlation with Criterion Variable Male Female
www.meensamed.clubb (willingsteps) contigents on the content of th	o million and dhad i mgallionni i pulici mulmid i so macalam ad masaj million dha sisimala. Addignisti sim
Mechanical or auto repair (1 = very often 5 = never)	115079 n = 4270 n = 3416
Playing golf or tennis; swimming (1 = very often 5 = never)	083* n = 3442
Other (surmer) work for pay ( 1 = very often = 5 = naver)	082* n = 4277
Percent of spanding money from regular allowance (1 = 0 percent 5 : 100 percent	067 n = 4285
Age at first date (1 = 12 or younger 6 = never dated)	083100* n = 4219 n = 3389
Evenings a week you go out for fun and recreation during the school year. (1 = less then one 6 = six or seven)	.075 .076 n = 4203 n = 3367
My grades reflect my stility fairly accurately. (1 = almost never 5 = almost always)	066 n = 4190
I make sure that I understand what I am doing before I start an assignment (1 = almost never 5 = almost always)	~.062062 n = 4209 n = 3373
	Mechanical or auto repair (1 = very often 5 = never)  Playing golf or tennis; swimming (1 = very often 5 = never)  Other (surmer) work for pay (1 = very often 5 = never)  Percent of spending money from regular allowance (1 = 0 percent 5 = 100 percent  Age at first date (1 = 12 or younger 6 = never dated)  Evenings a week you go out for fun and recreation during the school year. (1 = less than one 6 = six or seven)  My grades reflect my stility fairly accurately. (1 = almost never 5 = almost always)  I make sure that I understand what I am doing before I start an assignment

# Table 1 (contd)

Project TAIENT Data Bank Variable Number	Verieble	Correlation with Criterion Variable Male Female		
tudent Information	entre de la constitución de la c	were an	Female	
71	Lack of interest in my school work makes it difficult for me to keep my attention on what I am doing.  (1 = almost always 5 = almost never)	- 1.001	074 + n = 3376	
73	Pailure to pay attention in class has caused my marks to be lower. (1 = almost always = 5 = almost never)	069 n = 4206	nd einervalum geber Orwelde zuglund bereite von der deutsche der der der deutsche der deutsche der deutsche de	
75	I do my assignments so quickly that I don't do my best work. (1 = almost always 5 = almost never)	073 n = 4194	•.063 11 = 3380	
76	I have missed assignmentsbecause I was not paying atte. ich (1 = almost always 5 = almost never)	095* n = 4204	O STEEL SHARE ON AND AND AND AND AND AND AND AND AND AN	
77	My teachers have criticized me for turning in a sloppy assignment. (I = almost always ) = almost never)	079 n = 4206	ander-electron was entered in her making on geller and suggested	
78	Unless I really like a course, I do only enough to get ly. (1 = almost always = 5 = almost never)	indianicana remetracionamente que	- The This makes in plant the grant and the This	
80	In class I can't seem to keep my mind on what the teacher is saying. (1 = almost always 5 = almost never)	to its anti-contrar agreed to several contrar consequences constitution.	elektris eriye esilendi esilen	
8).	I get behind in my school assignments. (1 = almost always 5 = almost never)	079 n = 4219	065 n = 3388	

### Table 1 (contd)

Project TALENT Data Bank Variable Number	Crit	elation with erion Variable Female
Student Information Blank Number		L'OLITE L'O
88	I keep up to date on my assignments by doing my work every tay07 (1 = almost never	5070 151 n = 3348
96	How many days were you absent from school in the last school year? (1 = none	And the state of t
108	My grades in foreign language have been: .06 (1 = all A's 6 = mostly D's or below) a = 2	2 .062 989 n = 2431
109	My grades in history and pocial studies courses have been: (1 = all A's 0 = mostly D's on below)	en araban amerikan kerinda salam dapan dapan dari seriken dapat dari seriken dapat dari serik salam dapat dari Salam salam sa
110	My grades in English courses have been: .066 $(1 = all A's 6 = abstly D's corbelow) n = 41$	entender versionen vorsi gruppe etametra-uscrizionistikko etametra
113	My grades in all courses starting with ninth grade have been: .072 (1 = all A's & mostly D's or below) n = 40	ett korra vinne etter killig och straktig strakt til territor gar divn. Steknistes
133	Father's responsibility for money and property on his job (1 = not in charge of loney or property n = 30 4 = a great deal of money, merchandise or property)	
142	Father's activity in a business or068 professional association a = 395 (1 = extremely active 6 = not a member)	066 4 n = 3136



Table 1 (contd)

Project TALENT Nata Bank Variable		Correlation with Criterion Variable		
lumber	Variable	Male		
170	Building in which you live (1 = 2 one family house 5 = a rooming house, notel, or trailer)	andre et 1.5 million et 2.5 million	072 n = 3179	
171	If your family is renting, how much is rent per month? (1 = less than \$60	.073 n = 4051	rightskult til det skille som til skille skille s	
172	Value of present home (if bought or is buying): (1 = under \$6,000 5 = more than \$12,000)	.081* n = 3311	and the second s	
173	Family's total Income for last year (1959). (1 = less when \$3,000 5 = \$71.400 or more)	,074 11 = 3262	.030 n = 1965	
180	Number of mechanics, electronics, aviation or automobile magazines received regularly at nome? (1 = none 6 = fi e or more)	.072 n = 4156	han da marina da Karamata da marina da m	
190	Number of the following in home: automatic washer, automatic clothes dryer, electric dishwasher, electric or gas refrigerator, vacuum cleaner, home food freezer (1 = none 6 = five or six)	.077 n = 4190	.110* n = 3370	
191	Number of the following in home: telephone, television set, radio phonograph (1 = none 5 = four)	.063 n = 4176	.068 1 = 3362	

Table I (contd)

Project TALENT Data Bank Variable Number	Variable	Correlation with Criterion Variable Male Female	
Student Information Blank Number		P.E. 1.C	Female
193	Number of the friewing in home: musical instruments, hi-fi or stereophonic set, classical records art equipment, photo developing equipment. (1 = none 6 = five)		.075 n = 3354
1.9l <sub>†</sub>	Number of the following in home: tennis racket, golf clubs, hunting equipment, skis, fishing equipment. (1= none 6 = five)	.095* n = 4182	.090* n = 3373
196	How many hand tools are in your home? (1 = fire or less = 2 = 26 or more)	.067 n = 4181	.069 n = 3352
197	How many electrically operated power tools are in your home? (1 = none 6 = five or more)	0.055 $n = 4179$	.072 n = 3358
225	Number of rooms i home (1 = one 12 = seventeer or more)	Andrew St. Committee of the St	Control of the Contro
230	How many athletic teams have you been a member of in the last 3 years? (1 = none 12 = eleven or more)	POPULATION CONTRACTOR	.069 n = 3351
241	How many different times have you been sick in bed in the past year? (1 = none 6 = nine or more)	BV-eth-AZ-A-dhiffest-methodosendiyyana kesakek	.070 n = 3371
246	Average number hours of sleep per night (1 - about six or less 6 = about eleven or more)	069 n = 407S	



Table 1 (contd)

Project TALENT Data Bank Variable Number	Variable	Correlation with Criterion Variable Male Female	
Student Information Blank Number		COT Silveni Strumenti enga- und en medi mene tabu bu e Citago Agi	Antida Mera ung Anglikhir ga kagisan <del>dan dalah kerasalah kerasal</del>
247	How late up on weekends (1 = 9 P.M. or earlier 6 = 2 A.M. or later)	.093* n = 406L	.084* h = 3357
259	Normal use of both legs (1 = yes 2 = no)	073 n = 4076	
294	Average number of the a week driven car during past school year? (1 = none = 6 = ten or more)	.140* n = 3923	.213* n = 3263
295	Do you have a car of your own? (1 = yes 2 = no)	079 n = 3945	114 n = 3283
313	Reasons for attending college: I enjoy learning. (1 = extremely important 6 = not a reason)	.075 n = 3723	M. All Marketine community (M.
385	Percent of college expenses from loans from family, friends (1 = 0 percent 6 = 100 percent)	at men kaman di mengangkan di seganggan pad	064 n = 1905
393	Where do you expect to live while attending college? (1 = at home with my family 2 = in a pormitory)	and of the contribution of the state of the	067 n = 1451
)llow-up #35	Access to a car	.266* n = 4420	.320* n = 3538



### Table 1 (contd)

Data Bank Variable Number	Correlation wit  Variable  Correlation wit  Criterion Varia				
		Male	Female		
P * 801	Socia-economic-education index	.089 n = 4254	.101* n = 3422		
Information Test:	The second secon	dazzonio Conduturio veltoro to potezio si in ejezuatrian provinzione	Peter Lamindage or platestable designer of the complete of the lamin of the lamin on Assessment		
R-112	Mechanics	.102¥ n = 4360			
R <b>-2</b> 35	English: Effective expression	And Annual Control of the Annual Control of the Con	0.071 $n = 3503$		
R-260	Creativity	an mining a state and the state and a stat	.062 n = 3475		

The variables can be operationally defined by referring to Flanagan, et al (1965) The Project TALENT Data Bank for tests names and Flanagan, et al (1964) pages 5-6 to 9-30 for the Stadent Information Blank (SIB) items.

Project TALENT

<sup>\*</sup> Variables significant at the .Ol Level or beyond.



Table 2
Significant Correlates With Driver Training
(1 = yes vs. 3 = No, but course is available)

Project TALENT Data Bank Variable Number	C	Correlation with	
A COLO CI	Variable M	ale	Female
12 grade Follow-up #30	Accidents (1 = non-accident group 2 = accident group) (not significant) n	~.009 = 3928	053 n = 3271
tudent Information lank			men en e
10	Military or drill units ( 1 = extremely active 6 = not a member) n	070 ≈ 3832	
38	Now often delivered newspapers, moved lawns, baby-sitted, done house cleaning, etc. for pay? (1 = very often  5 = never)	MMARTHER SETTEMENT OF THE SETTEMENT OF T	.063 n = 3213
94	Age at starting first grade (1 = 4 years or younger 6 = nine years or older) n	.077 = 2993	hri hillir (Auftenthallachur niternapias agranças, Jacksto seus
100	Semesters Social Studies (1 = none = 6 = five or more)	Болот (Madainha mna сатрадна <u>, а</u> сар	065 n = 2499
1.36	Father's highest rank in military. (1 = enlisted 3 = officer)	dermit (not aller bestimpfelenderhaltetenbor	.097 n = 520
163	Parents speak Hebrew or Yiddish (1 - very fluently 6 = doesn't speak) n =	.104* = 2978	.113* n = 2489
170	Building in which you live (1 = one family house 5 = rooming house, hotel, or trailer)	PROTECTION OF THE PROTECTION O	092* n = 2384

Table 2 (contâ)

Dana danada Marrayan				
Project TAIENT Data Bank Variable Number	Variable	Correlation with Criterion Variables Male Female		
Student Information Blank	militar from una unita plan disputenden sono Es unita discusso dicitate per la conservación de su discusso de Medio en conservación de conserv	di Shafe di Nga	I. CHEATLE	
292	Age at first learning to inive (1 = 12 or younger 5 = 17 or older	07 <sup>‡</sup> n = 2862	101* n = 2127	
385	Loans for college expenses from other sources (family, friends) (1 = 0 percent o = 100 percent	.067 n = 1700	mining bendanda, a titan gilat ya pangangin ngandan abbiga	
391	How far from home is the college you expect to attend? (1 = within commuting distance) 4 = more than fir miles)	.079 n = 1414	n neger a lath a 1996 regis regis on all hall the cells and all hall and an a	
393	Where as you expect to size this attending colleges (I have note with my family 2 miles in demonstray)	.053 n = 1251	- medican filolomologica di Standari (din medicalistero cuin a zingga n	
nformation Test	and the second s	etta Market (f. A. eld 5 veille steel syndigen sylteet lellanne) in veiltille eller		
R-105	Social Studies	~.070 n = 2996		
R-139	Accounting, business, sales	088* n = 2956	to the control of the provided a construct of the second of the construction of the co	

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Table E

## Significant Correlates With Indiana And Non-Indiana

(Indians = 1 N t Indians = 2)

Project TALENT Data Bank Variable		Correlation with Criterion Variable		
Number	Variable		Female	
Student Information Blank Number		mmer makka julija dergininin di kriven en en en en vall supurpre makele serket and	is a terminal limit (film of the off prompted and the latest and company against	
27	<pre>Playing baseball, football or basketball (1 = very often 5 = never)</pre>		081* n = 3432	
98	Semesters Science Courses (1 = none = 0 = 5 or more	.066 n = 4289	Miller Marketter (1944) de gent er fillet en der verscheine er geleine gegenne generaliste er geben der gesche	
99	Semesters foreign language $(1 = n)$ ne $6 = 5$ or more)	.064 n = 4188	- The second	
102	Semesters business or commercial courses (1 = none 6 = 5 or more)	anganganggapanggapanggangganggangganggan	077 n = 3349	
103	Voc. shop or Ag. courses (1 = none $\theta = 5$ or more)	691* n = 4169	and and Assistant Sulfright (Sulfright) in his mind of the sulfright (Sulfright) in his management	
172	Value of home (1 - wher \$6,000 5 = more than \$22,000)	.069 n = 3311		
201	Number brothers or sisters who are high school drop-outs $(2 = \text{none} - \hat{\theta} = 4 \text{ or more})$	070 n = 3671	nerste deliktere ut die aller geholen der onwekelig	
230	Number athletic teams ( 1 = none   12 = 11 or more	r regi menenggi pilapahang masukandan dapatan menganggi pada	.091 n = 3351	
232	What do you expect to do about military service? (2 = quit high school and enlist 11 = never serve for other reasons)		137 n = 85	



Table 3 (c ntd.

# Significant Correlates wit: Indiana and Non-Indiana

(Indiana = 1 Not Indiana = 3)

Transact 1		ion with Nariable
910113V	Male	7emale
Where do you expect to live while attending college: (1 = home 2 = dormitory)		083* n = 1451
and the second s	n de de la companya	letteralannitikkolla letteratifunt singesfallsvalteletinssaalula
Literature	.064	
	attending college: (1 = home 2 = dormitory)	Where do you expect to live while attending college? (1 = home 2 = dormitory)



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- 8. Not being well acclimated in school is a premietor of accidents. Not paying attention, sloppy assignments and inattention in class are variables defining this lack of school acclimitization.
- y. Wriver training ecurses tend to be fallow by Chose of higher socio-contain-salutational status.
- II. Indiana's high selool students take dri at training as frequently as students in the United States and have assidents with equal frequency.

#### TAKE TO

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